

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 USC § 371**

DATE:

June 29, 2006

ATTORNEY DOCKET NUMBER

59468US005

U.S. APPLICATION NO.

(if known, see 37 CFR § 1.5)

INTERNATIONAL APPLICATION NO.

PCT/US2004/042662

INTERNATIONAL FILING DATE

17 December 2004

PRIORITY DATE CLAIMED

30 December 2003

TITLE OF INVENTION

ACOUSTO-MECHANICAL DETECTION SYSTEMS AND METHODS OF USE

APPLICANT(S) FOR DO/EO/US

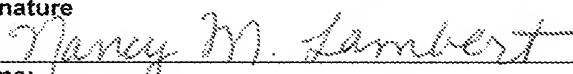
Chad J. Carter, Lake Elmo, Minnesota, U.S.A.; Moses M. David, Woodbury, Minnesota, U.S.A.; Larry H. Dodge, River Falls, Wisconsin, U.S.A.; M. Benton Free, St. Paul, Minnesota, U.S.A.; Samuel J. Gason, St. Paul, Minnesota, U.S.A.; John S. Huizinga, Dellwood, Minnesota, U.S.A.; Raymond P. Johnston, Lake Elmo, Minnesota, U.S.A.; Brinda B. Lakshmi, Woodbury, Minnesota, U.S.A.; Patrick A. Mach, Shorewood, Minnesota, U.S.A.; Larry G. Martin, Golden Valley, Minnesota, U.S.A.; Mikhail L. Pekurovsky, Bloomington, Minnesota, U.S.A.; Mark S. Schaberg, Lake Elmo, Minnesota, U.S.A.; Jeffrey D. Smith, Marine on St. Croix, Minnesota, U.S.A.; Kenneth B. Wood, Minneapolis, Minnesota, U.S.A. and Wenyuan Xu, Oakdale, Minnesota, U.S.A.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 USC § 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 USC § 371.
3. ☐ This is an express request to begin national examination procedures (35 USC § 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 USC § 371(c)(2)).
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☒ is not required, as the application was filed in the United States Receiving Office (RO/US)
6. ☐ An English language translation of the International Application as filed (35 USC § 371(c)(2)).
  - a. ☐ is attached hereto
  - b. ☐ has been previously submitted under 35 USC § 154(d)(4)
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 USC § 371(c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired
  - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 USC § 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 USC § 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 USC §§ 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☐ An Information Disclosure Statement under 37 CFR §§ 1.97 and 1.98.
12. ☐ An assignment to 3M Innovative Properties Company will follow.
13. ☐ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR § 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR §§ 1.821 – 1.825.
18. ☐ A second copy of the published international application under 35 USC § 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 USC § 154(d)(4).
20. ☐ Other items or information:

|  |   |   |                  |                                       |                                   |
|--|---|---|------------------|---------------------------------------|-----------------------------------|
| U.S. APPLN. NO. (if known, see 37 CFR § 1.5):  |   | INTERNATIONAL APPN. NO.:<br>PCT/US2005/042662 |                  | ATTORNEY'S DOCKET NO.:<br>59468US005  |                                   |
| <b>The following fees will be paid via EFS-Web at the time of filing:</b>  |   |   |                  | <b>Calculations</b>                   | <b>PTO Use Only</b>               |
| 21.  | <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... | \$300   |                  | \$300.00                              |                                   |
| 22.  | <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c))         |   |                  |                                       |                                   |
| If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....  |   |   |                  | \$0                                   |                                   |
| All other situations.....  |   |   |                  | \$200                                 | \$200.00                          |
| 23.  | <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b))              |   |                  |                                       |                                   |
| If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....  |   |   |                  | \$0                                   |                                   |
| Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....   |   |   |                  | \$100                                 |                                   |
| International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB.....  |   |   |                  | \$400                                 | \$400.00                          |
| All other situations.....  |   |   |                  | \$500                                 |                                   |
| <b>TOTAL OF 21, 22 and 23=</b>   |   |   |                  | <b>\$900.00</b>                       |                                   |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence or computer program listing filed in an electronic medium) The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  |   |   |                  |                                       |                                   |
| <b>Fee Calc</b>  | <b>Number Filed</b>   | <b>(Minus 25%)<br/>EFS Filing</b>             | <b>Minus 100</b> | <b>Calc.Extra</b>                     | <b>Rate (for<br/>ea.add'l 50)</b> |
| Application<br>Size Fee  | 75  | 57  | 0                | 0                                     | \$250.00                          |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR § 1.492(e)).   |   |   |                  | \$0.00                                |                                   |
| <b>CLAIMS</b>  |   | <b>NUMBER FILED</b>                           |                  | <b>EXTRA</b>                          | <b>RATE</b>                       |
| Total claims   |   | 47  | - 20 =           | 27                                    | x \$50.00                         |
| Independent claims   |   | 4   | - 3 =            | 1                                     | x \$200.00                        |
| Add'l fee for one or more multiple dependent claims  |   |   |                  | \$360.00                              | \$0.00                            |
| <b>Total Amount Due</b>  |   |   |                  | <b>\$2,450.00</b>                     |                                   |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR § 1.27.<br>The fees indicated above are reduced by 1/2.  |   |   |                  | \$0.00                                |                                   |
| <b>SUBTOTAL =</b>  |   |   |                  | <b>\$2,450.00</b>                     |                                   |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest priority date (37 CFR § 1.492(f)).  |   |   |                  | \$0.00                                |                                   |
| <b>TOTAL NATIONAL FEE =</b>  |   |   |                  | <b>\$2,450.00</b>                     |                                   |
| Fee for recording the enclosed assignment (37 CFR § 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR §§ 3.28, 3.31). \$40.00 per property  |   |   |                  | \$0.00                                |                                   |
| <b>TOTAL FEES ENCLOSED =</b>   |   |   |                  | <b>\$2,450.00</b>                     |                                   |
|  |   |   |                  | Amount to be<br>refunded:             |                                   |
|  |   |   |                  | Amount to be<br>charged               | \$2,450.00                        |
| a. <input checked="" type="checkbox"/> Fees will be paid via EFS-Web at the time of filing.<br>b. <input type="checkbox"/> Please charge my Deposit Account No. <u>13-3723</u> in the amount of \$ _____ to cover the above fees.<br>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>13-3723</u> |   |   |                  |                                       |                                   |
| <b>NOTE: Where an appropriate time limit under 37 CFR § 1.495 has not been met, a petition to revive (37 CFR § 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</b>  |   |   |                  |                                       |                                   |
| <b>Signature</b><br>  |   |   |                  |                                       |                                   |
| <b>Name:</b><br>NANCY M. LAMBERT   |   |   |                  | <b>Registration Number:</b><br>44,856 |                                   |
| <b>Address:</b><br>Office of Intellectual Property Counsel<br>3M Innovative Properties Company<br>P.O. Box 33427<br>St. Paul, Minnesota 55133-3427   |   |   |                  |                                       |                                   |